## ABSTRACT

A method for mining association rules in a database that is divided into multiple partitions associated with respective computing nodes. The method transmitting messages among the nodes with respect to local support of an itemset in the respective partitions Responsive to the messages transmitted of the database. by a subset of the nodes, the itemset is determined to be globally frequent in the database before the nodes outside the subset have transmitted the messages with respect to the local support of the itemset in their An association rule is computed respective partitions. with respect to the itemset, responsive to determined the itemset to be globally frequent.